

M. Steiner	
Variations on a theme of Frobenius about almost commuting unitary matrices	1
H. Faßbender and Kh.D. Ikramov	
Several observations on symplectic, Hamiltonian, and skew-Hamiltonian matrices	15
L. Tunçel and H. Wolkowicz	
Strengthened existence and uniqueness conditions for search directions in semidefinite programming	31
J.-M. Guo	
A new upper bound for the Laplacian spectral radius of graphs . . .	61
A.V. Karzaov	
Concave cocirculations in a triangular grid	67
A. Labra and C. Reyes	
Representations on train algebras of rank 3	91
G. MacGillivray, R.M. Tifenbach and P. van den Driessche	
Spectrally arbitrary star sign patterns	99
R. Pereira, P. Rocha and P. Vettori	
Algebraic tools for the study of quaternionic behavioral systems . . .	121
J.I. Fujii	
A trace inequality arising from quantum information theory	141
D.W. Kribs	
A quantum computing primer for operator theorists	147
Y.-J. Tan	
On the transitive matrices over distributive lattices	169
Y. She and P. Hao	
On the necessity and sufficiency of <i>PLUS</i> factorizations	193
C.-K. Li and L. Rodman	
Inverse closed ray-nonsingular cones of matrices	203
M. Fiedler	
Inversion of <i>e</i> -simple block matrices	231
S.K. Neogy and A.K. Das	
Principal pivot transforms of some classes of matrices	243
N. Castro-González and E. Dopazo	
Representations of the Drazin inverse for a class of block matrices .	253

Table of Contents continued

A. Yu, M. Lu and F. Tian	
Characterization on graphs which achieve a Das' upper bound for Laplacian spectral radius	271
C.-H. Li and S.-Y. Yang	
On a conjecture in D-optimal designs with $n \equiv 0 \pmod{4}$	279
C.-K. Li, Y.-T. Poon and N.-S. Sze	
Linear maps transforming the higher numerical ranges	291
H.-K. Du and Y. Li	
The spectral characterization of generalized projections	313
F. Ticozzi	
Optimal commuting approximation of Hermitian operators	319
P. Li and F. Lu	
Additivity of Jordan elementary maps on nest algebras	327
J.A. Rodríguez	
A spectral approach to the Randić index	339
D. Stevanović and I. Stanković	
Remarks on hyperenergetic circulant graphs	345
Call for Papers: 13th ILAS Conference	349
Author index to volume 400	351
From the Editor-in-Chief	353
Referees for volumes 381–400	359
Special Issues and Proceedings in volumes 301–400	365
Author index to volumes 301–400	367



This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier books and journals. You can register for **ContentsDirect** online at: <http://contentsdirect.elsevier.com>